

ABSTRACT OF THE DISCLOSURE

A semiconductor wafer made from silicon which is doped with hydrogen. The hydrogen concentration is less than  $5 \times 10^{16}$  atcm $^{-3}$  and greater than  $1 \times 10^{12}$  atcm $^{-3}$ . A method for producing a semiconductor wafer from silicon includes separating the semiconductor wafer from a silicon single crystal, with the single silicon crystal being pulled from a melt, in the presence of hydrogen, using the Czochralski method. The hydrogen partial pressure during the pulling of the single silicon crystal is less than 3 mbar.